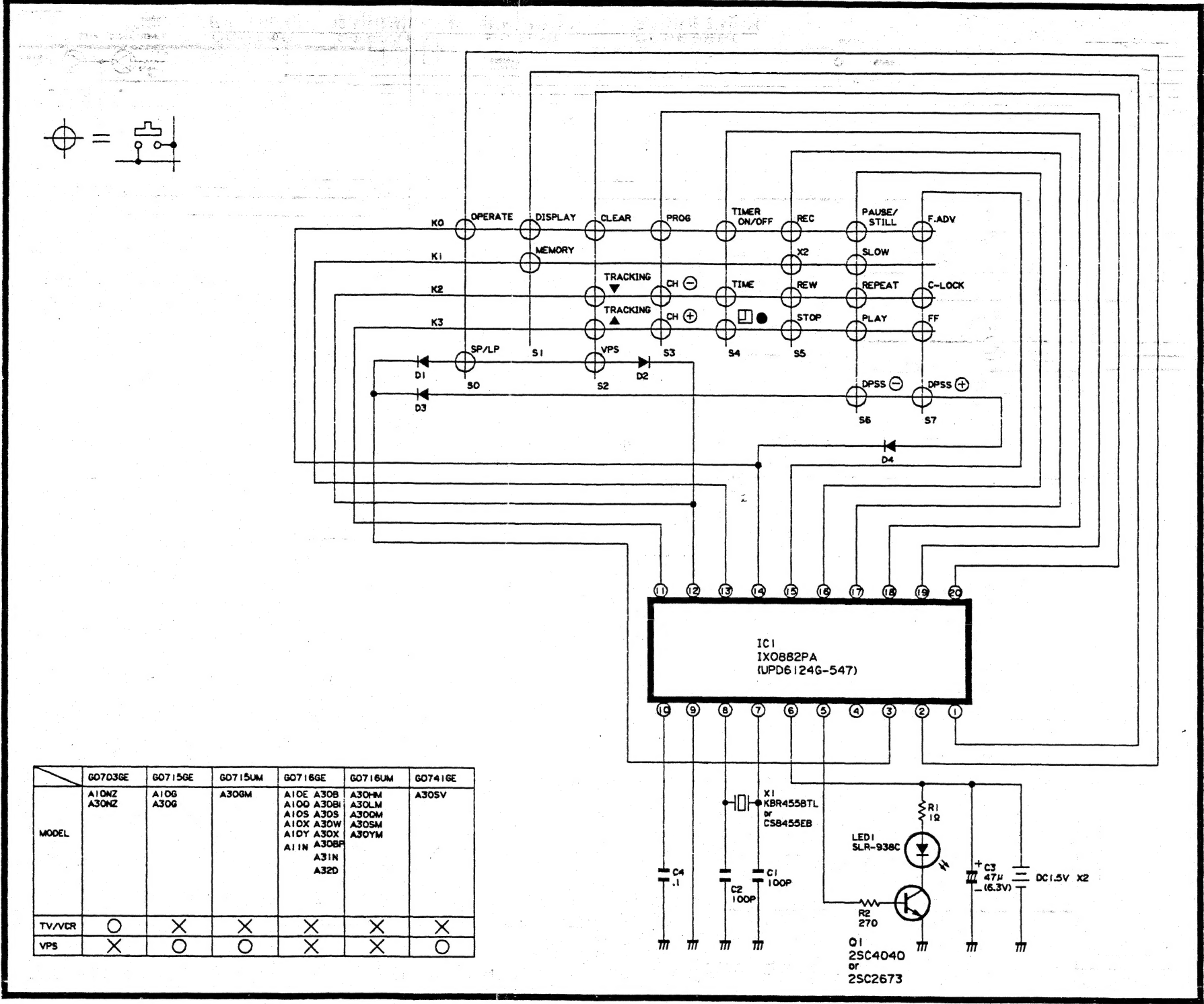
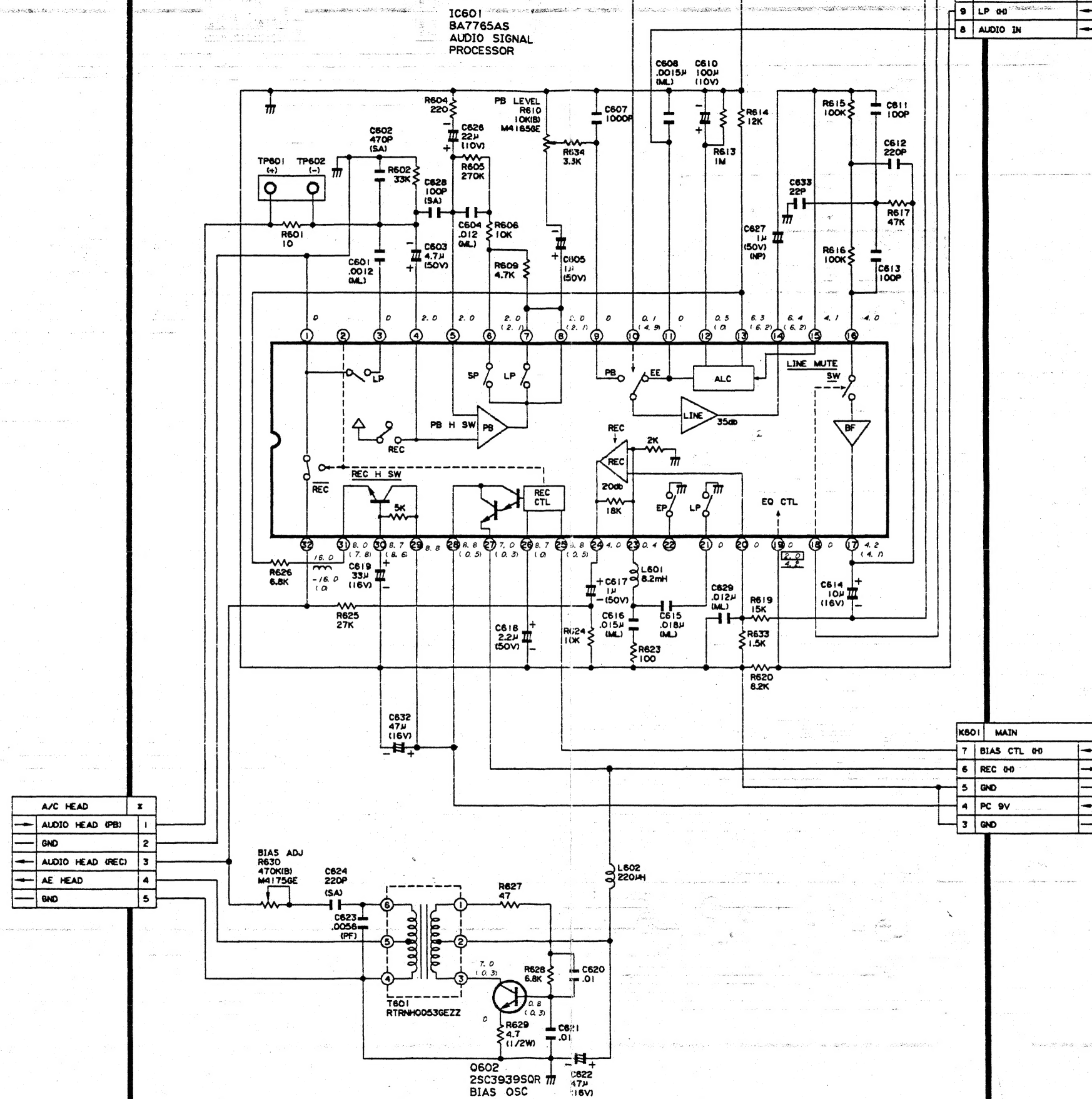


SHARP
VC-A30BP
SERVICE MANUAL

VIDEO CASSETTE RECORDER

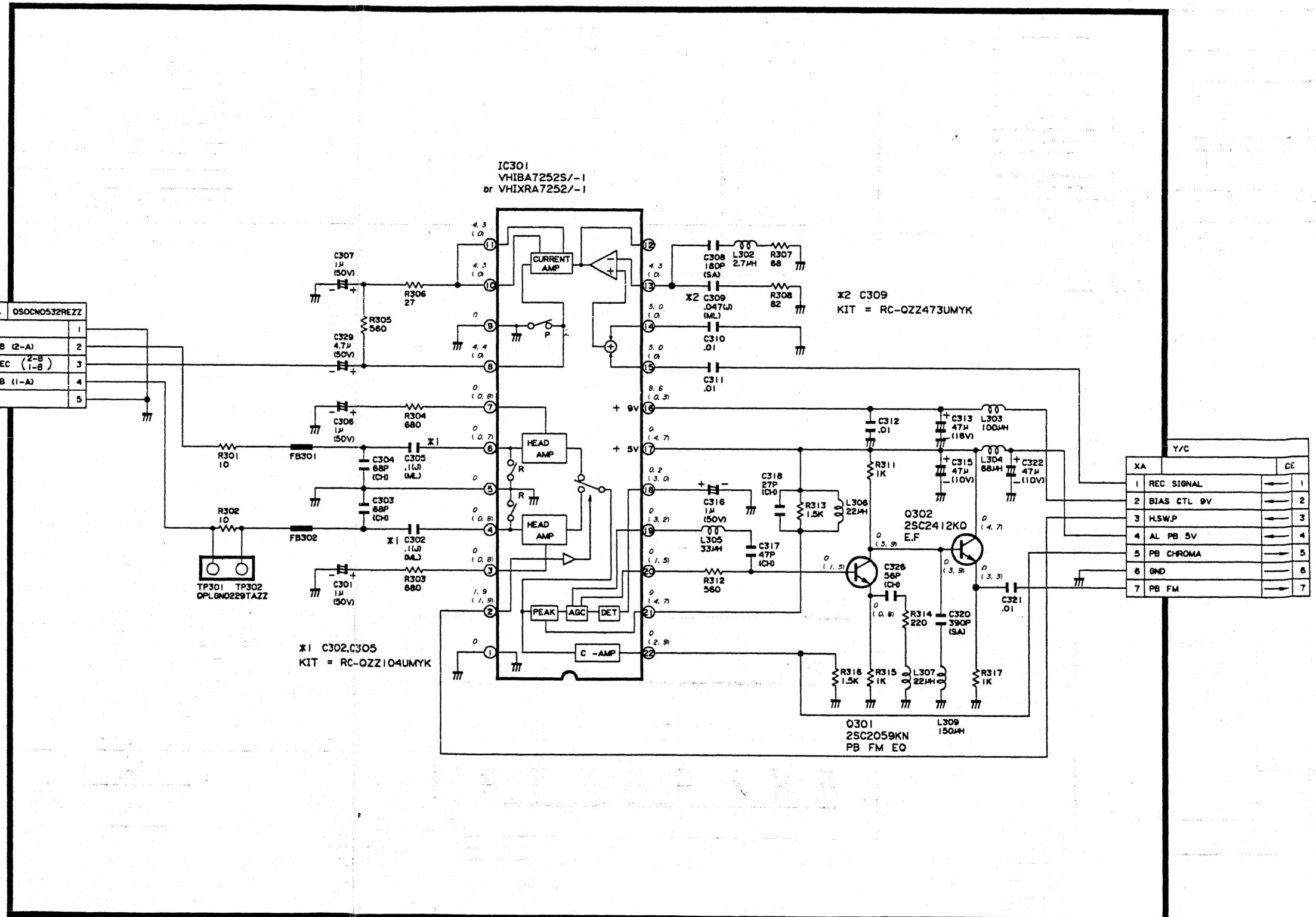
INFRARED REMOTE CONTROL





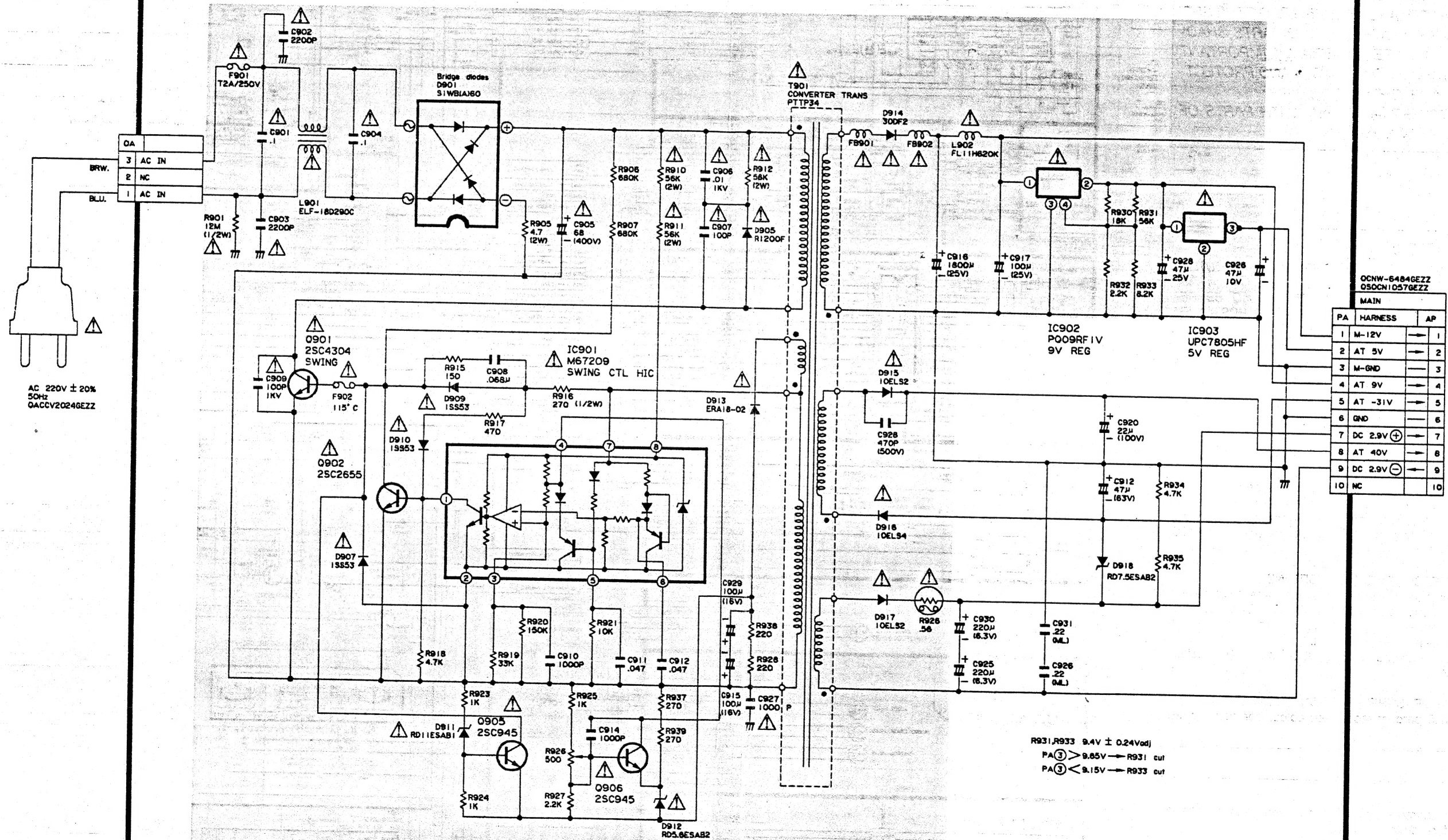
V-BASE PWB (FO059GE)

The diagram illustrates the electrical connections for the V-BASE PWB (FO059GE). A terminal block on the right, labeled QPLGND05796EZZ, provides five pins: 1 (GND), 2 (V-HEAD), 3 (V-HEAD), 4 (V-HEAD), and 5 (GND). Pin 1 is connected to a common ground point. Pin 2 is connected to the leftmost of three vertical components (inductors or capacitors). Pin 3 is connected to the middle vertical component. Pin 4 is connected to the rightmost vertical component. These three vertical components are connected to a central point, which is then connected to the left terminal of a rotary transducer. The rotary transducer has two terminals, labeled L 2-A and R 1-A, which are connected to the left and right terminals of a video head. The video head is labeled VIDEO HEAD RHEDV0017GEZZ.



980CA-3V

POWER CIRCUIT



VC-A30BP

IMPORTANT SAFETY NOTICE:

BE SURE TO USE GENUINE PARTS FOR SECURING THE SAFETY AND RELIABILITY OF THE SET. PARTS MARKED WITH " " AND PARTS SHAD-ED (IN BLACK) ARE ESPECIALLY IMPORTANT FOR MAINTAINING THE SAFETY AND PROTECT-ING ABILITY OF THE SET.

BE SURE TO REPLACE THEM WITH PARTS OF SPECIFIED PART NUMBER.

SAFETY NOTES:

1. DISCONNECT THE AC PLUG FROM THE AC OUTLET BEFORE REPLACING PARTS.
2. SEMICONDUCTOR HEAT SINKS SHOULD BE RE-GARDED AS POTENTIAL SHOCK HAZARDS WHEN THE CHASSIS IS OPERATING.

NOTES:

1. The unit of resistance "ohm" is omitted ($k = 1000 \text{ ohm}$, $M = 1 \text{ Meg ohm}$).
2. All resistors are $1/8$ watt, unless otherwise noted.
3. The unit of capacitance "F" is omitted ($\mu = \mu F$, $p = pF$).
4. The values in parentheses are the ones in the PB mode; the values without parentheses are the ones in the REC mode.

VOLTAGE MEASUREMENT CONDITIONS:

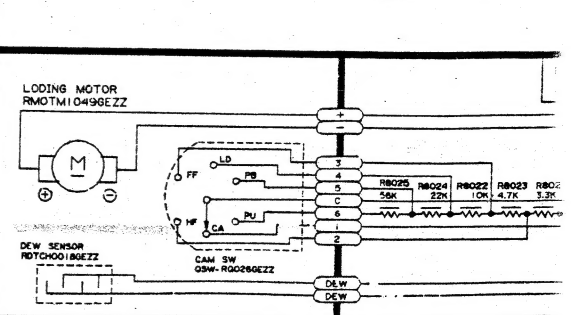
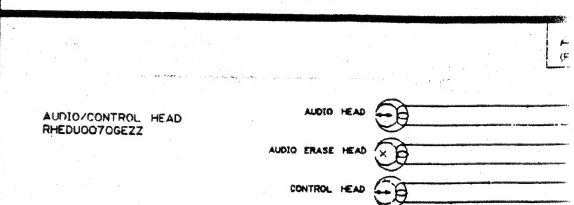
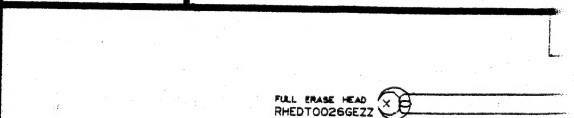
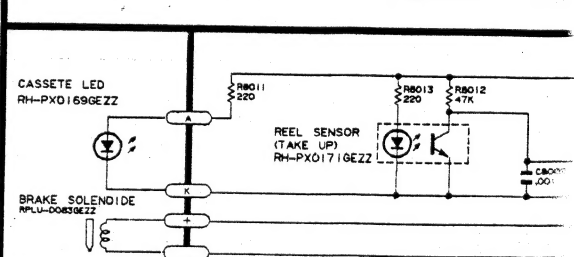
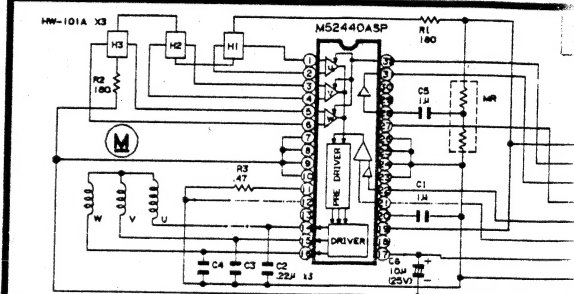
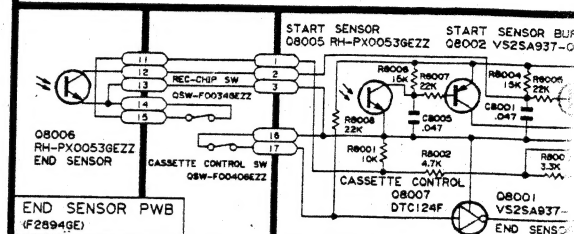
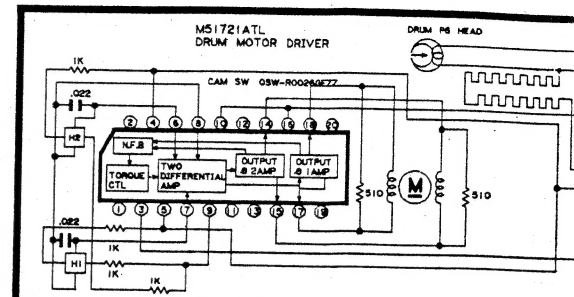
1. DC voltages are measured between points indicated and chassis ground by VTVM, with AC100V~240V, 50/60Hz supplied to unit and all controls are set to normal viewing picture unless otherwise noted.
2. Voltages are measured with $10000\mu V$ B & W or colour signal.

WAVEFORM MEASUREMENT CONDITIONS:

$10000\mu V$ 87.5 percent modulated colour bar signal is fed into tuner:

CAUTION:

This circuit diagram is original one. Therefore there may be a slight difference from yours.



BOBP

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ITY OF THE SET.
D PARTS SHAD-
LY IMPORTANT
AND PROTECT-
WITH PARTS OF

OM THE AC OUTLET
SHOULD BE RE-
K HAZARDS WHEN

itted ($k = 1000 \text{ ohm}$,
otherwise noted.
ed ($\mu = \mu F$, $\rho = \mu \mu F$).
ones in the PB mode;
the ones in the REC

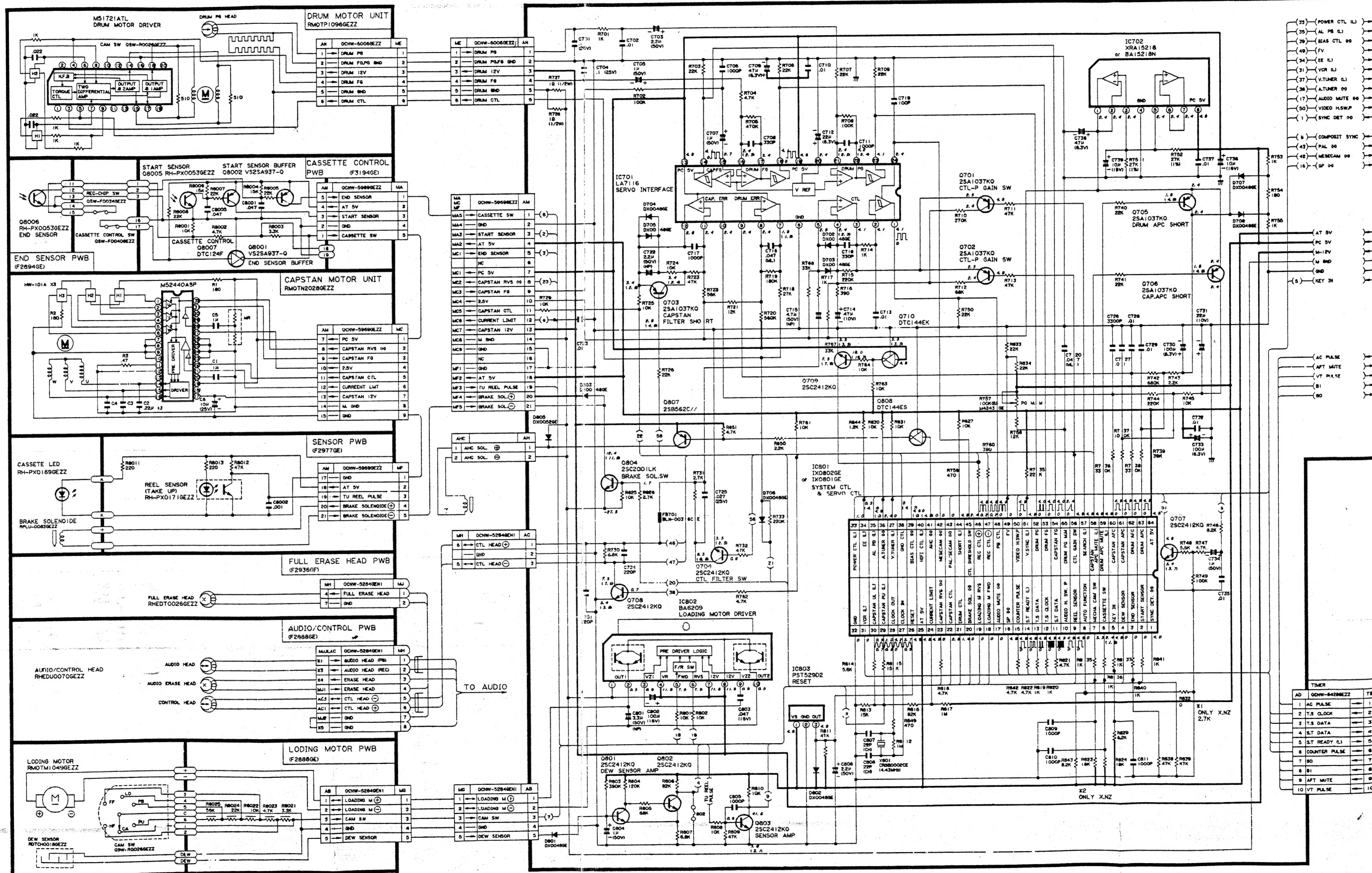
ONS:
points indicated and
100V~240V, 50/60Hz
set to normal viewing

Q μ V B & W or colour

ITIONS:
our ber signal is fed

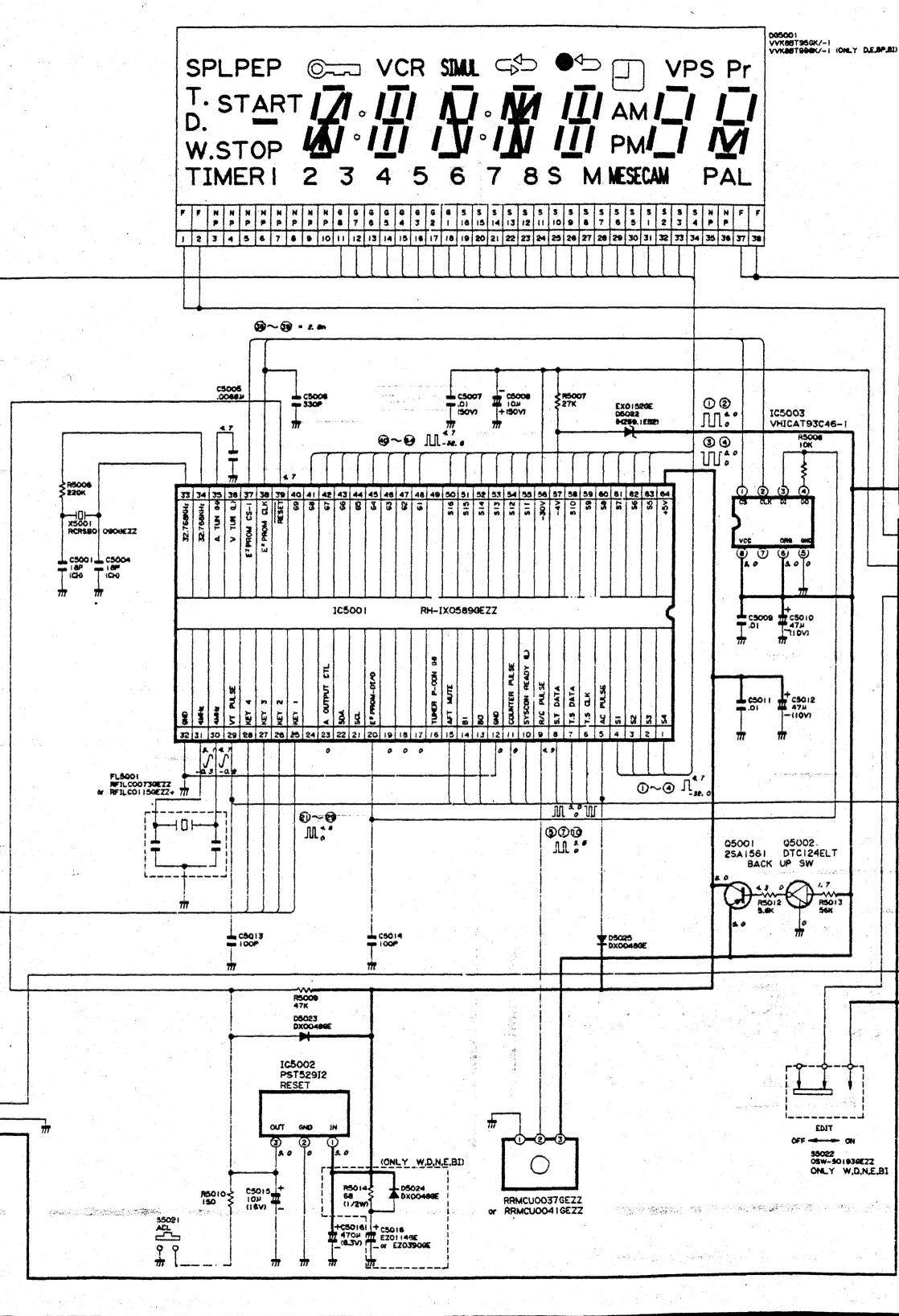
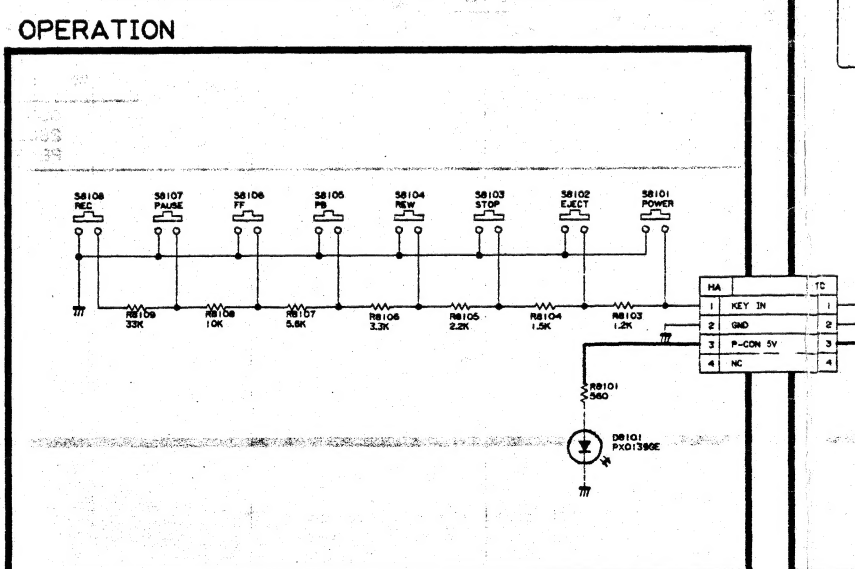
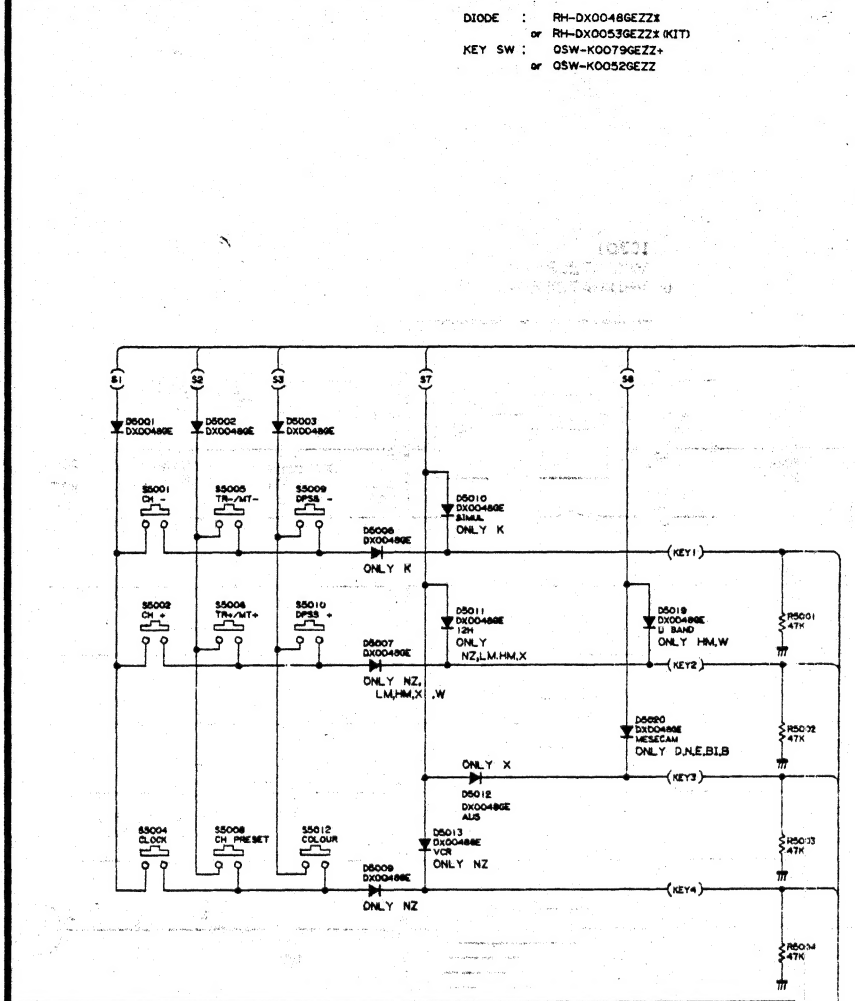
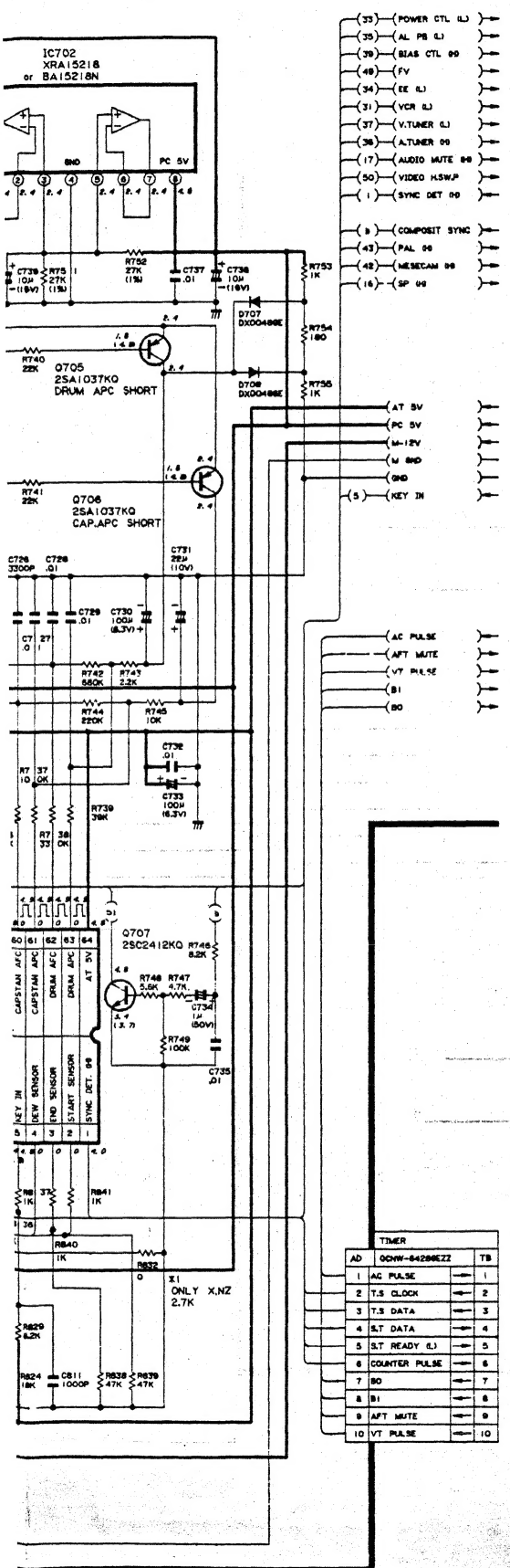
herefore there may be

MAIN CIRCUIT (1)



OPERATION CIRCUIT / TIMER CIRCUIT

TIMER



MAIN PWB

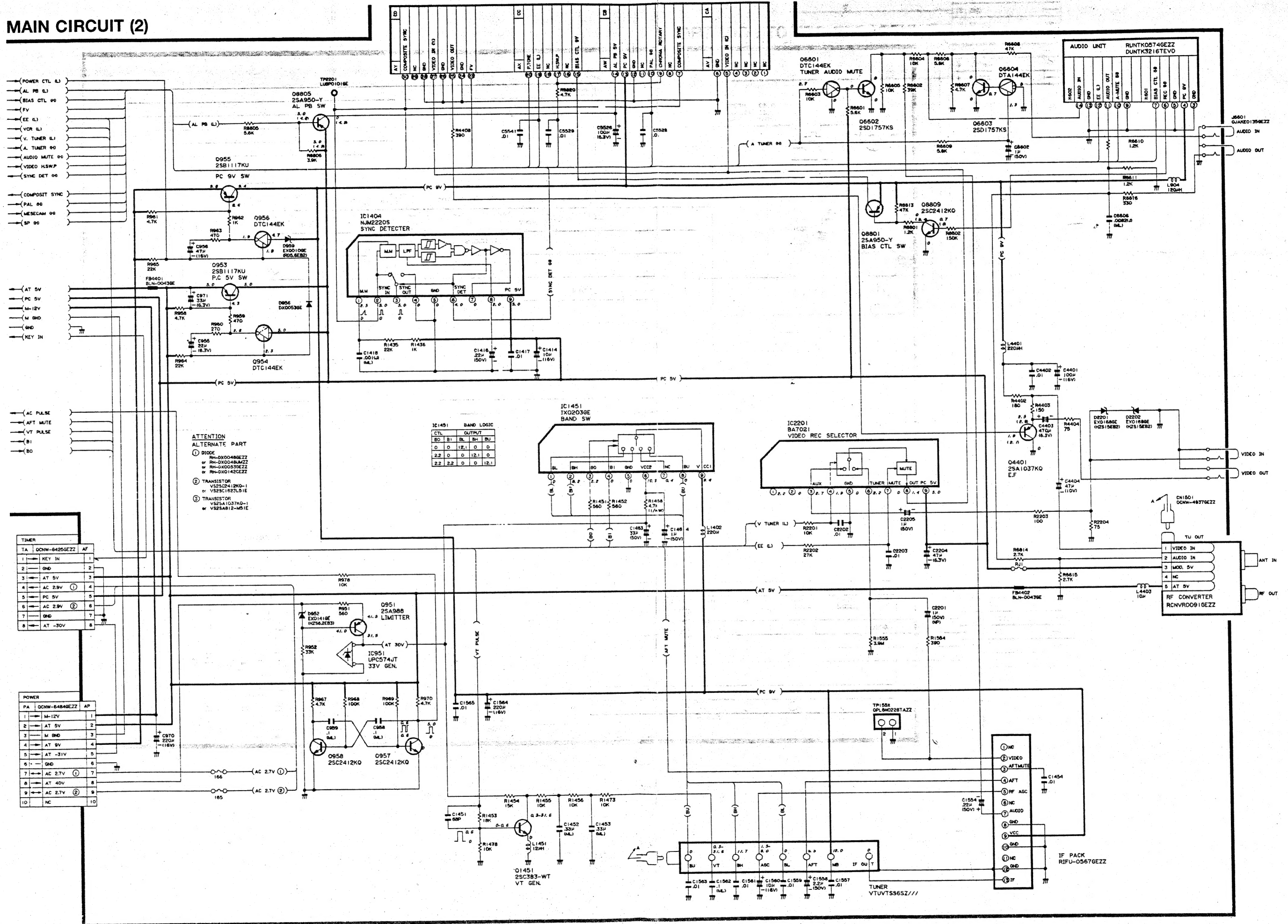
TA	OCNW-3481GEZZ	AF
1	KEY IN	1
2	END	2
3	AT 5V	3
4	AC 2.9V	4
5	P-CON 5V	5
6	AC 2.9V	6
7	SHD	7
8	AT -30V	8
9	NC	9
10	EDIT 00	10

X1
③ - ONLY N.D.W.B1
X2
OCNW-3972GEZZ
ONLY N.D.W.B1

MAIN PWB

TA	OCNW-3972GEZZ	AD
1	AC PULSE	1
2	T.S. CLOCK	2
3	T.S. DATA	3
4	T.S. DATA	4
5	T.S. READY GJ	5
6	COUNTER PULSE	6
7	BO	7
8	BI	8
9	AFT MUTE	9
10	VT PULSE	10

MAIN CIRCUIT (2)

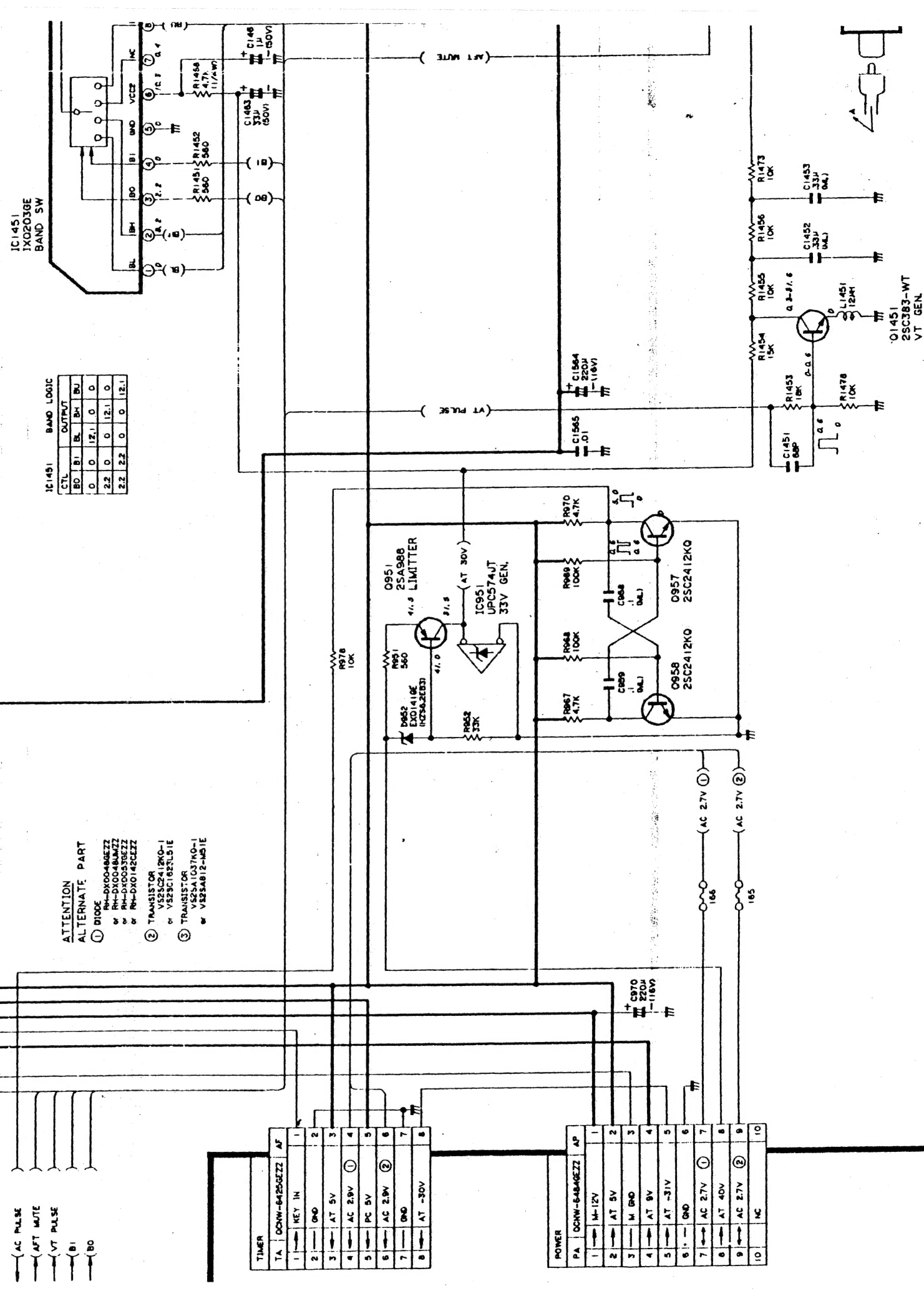


MAIN CIRCUIT (2)

The schematic diagram illustrates the internal circuitry of a video receiver, specifically the main circuit section. It features several key components and their interconnections:

- Transistors:** Q953 (2SB1117KU) and Q955 (2SA950-Y) are used as video amplifiers. Q956 (DTC144EK) is a PNP transistor, and Q954 (DTC144EK) is an NPN transistor.
- Diodes:** D959 (EXD010E) and D958 (DAX0030E) are diodes used in the signal path.
- Resistors:** Various resistors are used for biasing and signal conditioning, including R901 (4.7K), R902 (1K), R903 (47K), R904 (22K), R905 (4.7K), R906 (27K), R907 (22K), R908 (47K), R909 (22K), R910 (22K), R911 (22K), R912 (22K), R913 (22K), R914 (22K), R915 (22K), R916 (22K), R917 (22K), R918 (22K), R919 (22K), R920 (22K), R921 (22K), R922 (22K), R923 (22K), R924 (22K), R925 (22K), R926 (22K), R927 (22K), R928 (22K), R929 (22K), R930 (22K), R931 (22K), R932 (22K), R933 (22K), R934 (22K), R935 (22K), R936 (22K), R937 (22K), R938 (22K), R939 (22K), R940 (22K), R941 (22K), R942 (22K), R943 (22K), R944 (22K), R945 (22K), R946 (22K), R947 (22K), R948 (22K), R949 (22K), R950 (22K), R951 (22K), R952 (22K), R953 (22K), R954 (22K), R955 (22K), R956 (22K), R957 (22K), R958 (22K), R959 (22K), R960 (22K), R961 (22K), R962 (22K), R963 (22K), R964 (22K), R965 (22K), R966 (22K), R967 (22K), R968 (22K), R969 (22K), R970 (22K), R971 (22K), R972 (22K), R973 (22K), R974 (22K), R975 (22K), R976 (22K), R977 (22K), R978 (22K), R979 (22K), R980 (22K), R981 (22K), R982 (22K), R983 (22K), R984 (22K), R985 (22K), R986 (22K), R987 (22K), R988 (22K), R989 (22K), R990 (22K), R991 (22K), R992 (22K), R993 (22K), R994 (22K), R995 (22K), R996 (22K), R997 (22K), R998 (22K), R999 (22K), R1000 (22K).
- Capacitors:** Various capacitors are used for coupling and bypassing, including C956 (47K), C957 (47K), C958 (47K), C959 (47K), C960 (47K), C961 (47K), C962 (47K), C963 (47K), C964 (47K), C965 (47K), C966 (47K), C967 (47K), C968 (47K), C969 (47K), C970 (47K), C971 (47K), C972 (47K), C973 (47K), C974 (47K), C975 (47K), C976 (47K), C977 (47K), C978 (47K), C979 (47K), C980 (47K), C981 (47K), C982 (47K), C983 (47K), C984 (47K), C985 (47K), C986 (47K), C987 (47K), C988 (47K), C989 (47K), C990 (47K), C991 (47K), C992 (47K), C993 (47K), C994 (47K), C995 (47K), C996 (47K), C997 (47K), C998 (47K), C999 (47K), C1000 (47K).
- Integrated Circuits:** IC1404 (NM2220S) is a sync detector. IC1405 (NM2220S) is a video amplifier.
- Other Components:** A 100K potentiometer is used for volume control. A 100K potentiometer is used for contrast control. A 100K potentiometer is used for brightness control. A 100K potentiometer is used for color control.

The diagram shows the internal circuitry of a video receiver, including the sync detector, video amplifier, and various control components. The components are interconnected to form a complete circuit for video reception and processing.



Y/C CIRCUIT

